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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|--|-----------------|-------------------------|---------------------------|------------------|--|--|
| 10/718,371 | 11/20/2003 | Daniel Williams Fry JR. | 18124 (AT20958-1035) 9531 | | | |
| 75 | 7590 11/18/2004 | | | EXAMINER | | |
| Michael J. Aronoff | | | PRASAD, CHANDRIKA | | | |
| Tyco Electronics Corporation Suite 140 | | | ART UNIT | PAPER NUMBER | | |
| 4550 New Linden Hill Road | | | 2839 | | | |
| Wilimington, DE 19808 | | | DATE MAILED: 11/18/2004 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|--|---|---|--|---|---------------------|---|--|--|
| | | Application No. | Appl | icant(s) | AC | 7 | | |
| Office Action Summary | | 10/718,371 | FRY | ET AL. | | | | |
| | | Examiner | Art U | nit | | | | |
| | | Chandrika Prasad | 2839 | | | | | |
| <i> Th</i> Period for Re | e MAILING DATE of this communication a ply | ppears on the cover s | heet with the corresp | ondence ad | dress | | | |
| THE MAIL - Extensions after SIX (6 - If the period - If NO period - Failure to re Any reply re | ENED STATUTORY PERIOD FOR REF LING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CFR MONTHS from the mailing date of this communication. If or reply specified above is less than thirty (30) days, a red for reply is specified above, the maximum statutory period ply within the set or extended period for reply will, by state sectived by the Office later than three months after the mainer term adjustment. See 37 CFR 1.704(b). | N. 1.136(a). In no event, however eply within the statutory minim od will apply and will expire SI tute, cause the application to b | or, may a reply be timely filed um of thirty (30) days will be K (6) MONTHS from the mail ecome ABANDONED (35 U | considered timely ing date of this co .S.C. § 133). | | | | |
| Status | | | | | | | | |
| 1)⊠ Res | ponsive to communication(s) filed on 20 | November 2003. | | | | | | |
| 2a)☐ This | action is FINAL . 2b)⊠ TI | his action is non-final. | | | | | | |
| 3)☐ Sind | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | |
| clos | ed in accordance with the practice unde | r <i>Ex parte</i> Q <i>uayle</i> , 19 | 35 C.D. 11, 453 O.G | 3. 213. | | | | |
| Disposition o | of Claims | | | | | | | |
| 4)⊠ Clai | m(s) <u>1-21</u> is/are pending in the application | on. | • | | | | | |
| 4a) (| Of the above claim(s) is/are withd | rawn from considerat | ion. | | | | | |
| 5)∐ Clai | m(s) is/are allowed. | | | | | | | |
| 6)⊠ Clai | m(s) <u>1-21</u> is/are rejected. | | | | | | | |
| 7)∐ Clai | m(s) is/are objected to. | | | | | | | |
| 8)⊟ Clai | m(s) are subject to restriction and | d/or election requirem | ent. | | | | | |
| Application F | Papers | | | | | | | |
| 9)⊠ The | specification is objected to by the Exami | iner. | | | | | | |
| 10) ∐ The | drawing(s) filed on is/are: a) a | ccepted or b) dobje | cted to by the Exami | ner. | | | | |
| Арр | licant may not request that any objection to the | he drawing(s) be held ir | abeyance. See 37 C | FR 1.85(a). | | | | |
| , Rep | lacement drawing sheet(s) including the corre | ection is required if the | drawing(s) is objected | to. See 37 CF | FR 1.121(d). | | | |
| 11) The | oath or declaration is objected to by the | Examiner. Note the a | ttached Office Actio | n or form PT | O-152. | | | |
| Priority unde | r 35 U.S.C. § 119 | | • | | | | | |
| a) | nowledgment is made of a claim for foreing to b) Some * c) None of: Certified copies of the priority docume Certified copies of the priority docume | ents have been receiv | red. | | | | | |
| 3. | Copies of the certified copies of the pr | riority documents hav | e been received in t | nis National | Stage | | | |
| | application from the International Bure | eau (PCT Rule 17.2(a |)). | | | | | |
| * See t | he attached detailed Office action for a li | ist of the certified cop | ies not received. | | | | | |
| Attachment(s) | | | | | | | | |
| | teferences Cited (PTO-892) | | terview Summary (PTO-4 | | | | | |
| | Praftsperson's Patent Drawing Review (PTO-948) | | aper No(s)/Mail Date otice of Informal Patent A | |) ₋ 152\ | | | |
| | n Disclosure Statement(s) (PTO-1449 or PTO/SB/0s)/Mail Date | · · / · · · = | olice of informal Palent A ther: | pplication (PTC | J-132j | | | |

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-9, 11-14 and 16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Lin et al. (5451158).

Lin (Figures 1-5) shows a header assembly 20 having an insulative housing 22 with a plurality of walls defining an interior cavity with a plurality of contacts 32, 32' within the cavity and a plurality of alignment ribs defined by channels 50 extending on an exterior surface wherein the contacts abut the ribs to ensure coplanarity of the contacts. The housing has longitudinal side walls and lateral side walls. And the ribs extend parallel to one of the longitudinal and lateral side walls. The contacts extend in a plurality of rows and are preloaded against the ribs. Some of the contacts 32, 32' have a first length and some of the contacts have a second length wherein the first length is greater than the second length. The contacts are staggered. Lin further teaches the use of solder block and reflow soldering for surface mounting the contacts. The contacts

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have rounded ends. The solder tails of the contacts are flexed about the alignment ribs.

The method of assembling the contacts in the housing is inherent.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 10 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (5451158).

Lin shows all the features of these claims except the alignment ribs having crowned surfaces. Such a feature is well known in the art of electrical connectors. It would have been obvious to one having ordinary skill in the art at the time of the instant invention to provide such a feature because this would provide a smooth surface is assembling the contacts in the openings between the ribs.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fair et al. (6419526), Beinhaur et al. (4960391) and Boteler (5336116).

Contact Information

7. Any correspondence to this action may be mailed to:

Commissioner for Patents Post Office Box 1450 Alexandria, VA 22313-1450 Application/Control Number: 10/718,371 Page 4

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chandrika Prasad whose telephone number is (571) 272-2099.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor can be reached at (571) 272-2800 ext 39. The fax number is (703) 872-9306.

Chandrika Prasad Primary examiner November 16, 2004